# LAPORAN TUGAS PEMROGRAMAN BERBASIS FRAMEWORK

### Modul 6 Redux



### Disusun Oleh:

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Program Studi D-IV Teknik Informatika Jurusan Teknologi Informasi Politeknik Negeri Malang Maret 2021 Praktikum - Bagian 1: Membuat Redux

## Langkah Keterangan Buat project react app baru dengan syntax "npx create-react-app app-name" dan install dependencies 1 yang dibutuhkan yaitu react-redux dan redux PS D:\data\Users\User\Documents\College\Framework Prog\framework\_prog\6thWeek> npx create-react-app redux nox: installed 67 in 11.934s Creating a new React app in D:\data\Users\User\Documents\College\Framework Prog\framework prog\6thWeek\redux. Installing packages. This might take a couple of minutes. Installing react, react-dom, and react-scripts with cra-template... > core-is@2.6.12 postinstall D:\data\Users\User\Documents\College\Framework Prog\framework prog\6thWeek\redux\node modules\babel-runtime\node modu les\core-js > node -e "try{require('./postinstall')}catch(e){}" Removes this tool and copies build dependencies, configuration files and scripts into the app directory. If you do this, you can't go back! We suggest that you begin by typing: cd redux nom start Happy hacking! PS D:\data\Users\User\Documents\College\Framework Prog\framework prog\6thWeek> $PS \ D: \ data \ Users \ User \ Documents \ College \ Framework \ Prog \ framework \ prog \ 6th \ Week \ redux \ npm \ install \ react-redux \ npm \ install \ npm \ n$ npm [ARR] tsutils@3.21.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3.7.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3.7.0optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node\_modules\fsevents): npm WA notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin", "arch": "any"} (current: {"os":"win32" ."arch": "x64"}) npm MARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node\_modules\watchpack-chokidar2\node\_modules\fsevents): pm WARN optional SKIPPING OPTIONAL DEPENDENCY: Insevents@1.2.13 (Node\_modules\wactipack-clockidar2\node\_modules\vaccipack-clockidar2\node\_modules\vaccipack-clockidar2\node\_modules\vaccipack-dev-serven\node\vacc nom + react-redux@7.2.2 added 2 packages from 2 contributors and audited 1952 packages in 19.337s 133 packages are looking for funding run `npm fund` for details found 0 vulnerabilities PS D:\data\Users\User\Documents\College\Framework Prog\framework prog\6thWeek\redux> $\label{lem:problem:proghamework_proghamewo$ npm | MARN | tsutils@3.21.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-beta || >= 3.7.0-dev || >= 3.7. npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node modules\fsevents): npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin", "arch": "any"} (current: {"os": "win32" "arch": "x64"}) npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node\_modules\watchpack-chokidar2\node\_modules\fsevents): npm WARN ontsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin", "arch": "any"} (current: {"os":"win32 :"x64"}) , arcn : xo4 }) npm MARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node\_modules\webpack-dev-server\node\_modules\fsevents): npm MARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32 ","arch":"x64"}) + redux@4.0.5 added 2 packages from 1 contributor and audited 1954 packages in 18.626s 133 packages are looking for funding run `npm fund` for details PS D:\data\Users\User\Documents\College\Framework Prog\framework\_prog\6thWeek\hunayn-app> Buat Folder dalam src yaitu Action

#### Beri nama actionCreator.js

```
6thWeek > hunayn-app > src > actions > JS actionCreator.js > ...
     import {
       ADD_TODO,
  2
      REMOVE_TODO,
  3
      TOGGLE TODO,
  4
      SET_VISIBILITY_FILTER,
  6 } from "./actionsTypes";
    let TodoId = 2;
 8 export const addTodo = (text) => ({
      type: ADD_TODO,
      id: TodoId++,
 10
      text,
 11
 12 });
 13 export const deleteTodo = (id) => ({
 14 type: REMOVE_TODO,
 15
      id: id,
16 });
 17 export const toggleTodo = (id) => ({
 18 type: TOGGLE_TODO,
      id: id,
 19
 20 });
 21 export const setVisibilityFilter = (filter) => ({
 22 type: SET_VISIBILITY_FILTER,
      filter,
 23
 24
     });
 25
```

#### Masih dalam Folder Action buatlah file actionsTypes.js

```
6thWeek > hunayn-app > src > actions > JS actionsTypes.js > ...

1    export const ADD_TODO = "ADD_TODO";

2    @port const TOGGLE_TODO = "TOGGLE_TODO";

3    export const REMOVE_TODO = "REMOVE_TODO";

4    export const SHOW_ALL = "SHOW_ALL";

5    export const SHOW_COMPLETED = "SHOW_COMPLETED";

6    export const SHOW_ACTIVE = "SHOW_ACTIVE";

7    export const SET_VISIBILITY_FILTER = "SET_VISIBILITY_FILTER";

8
```

Kemudian dalam folder src buatlah folder dengan nama containers dan buatlah file dengan judul CreateTodo.js

```
6thWeek > hunavn-app > src > containers > JS CreateTodo.is >
        1
        import { bindActionCreators } from "redux";
        class CreateTodo extends Component {
          constructor(props) {
             super(props);
             this.state = {
             todotext: "",
    9
   10
   11
            this.onChangeTodoText = this.onChangeTodoText.bind(this);
   12
   13
          onChangeTodoText(e) {
   14
            this.setState({
   15
              todotext: e.target.value,
   16
            });
   17
   18
          render() {
   19
            return (
   20
              <div className="form-group row">
   21
                <div className="col-sm-10">
   22
                  <input
   23
                    onChange={this.onChangeTodoText}
   24
                     value={this.state.todotext}
                    type="text"
   25
                    className="form-control"
   26
                    id="inputEmail3"
   27
 6thWeek > hunayn-app > src > containers > JS CreateTodo.js > ...
                    id="inputEmail3"
  27
   28
                    placeholder="add todo here"
   29
   30
                  <button
                   type="button"
   31
                   onclick={() => this.setState({ todotext: "" })}
style={{ marginTop: "25px", marginRight: "15px" }}
className="btn btnEdanger"
   32
   33
   34
   35
   36
                   Cancel
   37
                  </button>
   38
                  <button
                    type="button"
   40
                    onClick={() => {
   41
                      this.props.addTodo(this.state.todotext);
   42
                     this.setState({ todotext: "" });
   43
  44
                    style={{ marginTop: "25px" }}
  45
                   className="btn btn-success
  46
                  Add Todo
  47
                  </button>
  48
   49
                </div>
   50
              </div>
   51
            );
          }
   53
  6thWeek > hunayn-app > src > containers > JS CreateTodo.js > ...
   52
        }
   53
   54
        const mapDispatchToProps = (dispatch) => {
   55
          return bindActionCreators(
   56
              addTodo.
   57
   58
   59
           dispatch
   60
          );
   61
        1:
        export default connect(null, mapDispatchToProps)(CreateTodo);
   62
Masih dalam folder containers buatlah file dengan judul Table.js
```

```
6thWeek > hunavn-app > src > containers > JS Table.is >
      1
      import {
  3
        deleteTodo,
        toggleTodo,
        setVisibilityFilter,
      } from "../actions/actionCreator";
      import { SHOW_ALL, SHOW_COMPLETED, SHOW_ACTIVE } from "../actions/actionsTypes";
  a
      import { bindActionCreators } from "redux";
 10
      class Table extends Component {
 11
       render() {
 12
         return (
           <div className="col-lg-10 offset-lg-1 col-md-10 col-sm-12 col-xs-12">
 13
             <nav style={{ marginTop: "60px" }}>
 14
               15
                i
 16
                  className={
 17
 18
                     "breadcrumb-item " +
                    (this.props.visibilityFilter === SHOW_ALL ? "active" : "")
 19
 20
                 onClick={() => this.props.setVisibilityFilter(SHOW_ALL)}
 22
 23
                All
 24
                 25
                 26
                  className={
 27
                    "breadcrumb-item " +
6thWeek > hunayn-app > src > containers > JS Table.js >
 27
                    "breadcrumb-item " +
 28
                    (this.props.visibilityFilter === SHOW_COMPLETED ? "active" : "")
 29
 30
                 onClick={() => this.props.setVisibilityFilter(SHOW_COMPLETED)}
 31
                Completed
 32
                 33
 34
                 <1i
 35
                  className={
                     "breadcrumb-item " +
 36
                   (this.props.visibilityFilter === SHOW_ACTIVE ? "active" : "")
 37
 38
 39
                 onClick={() => this.props.setVisibilityFilter(SHOW_ACTIVE)}
 40
 41
                Active
 42
                 43
               44
             </nav>
 45
             {this.props.todos.length !== 0 ? (
 46
               <table
                style={{ marginTop: "60px" }}
 47
 48
               className="table table-hover table-dark"
 49
                <thead>
 50
 51
                  (tr>
                    Todos
 52
                    Actions
 53
6thWeek > hunayn-app > src > containers > JS Table.js > .
                   Actions
 53
 54
                   c/tr>
                 </thead>
 55
 56
                 57
                   {this.props.todos.map((todo) => (
                     58
                      <td
 59
                        style={{
 60
                          textDecoration: todo.completed ? "line-through" : "none",
 61
 62
                        }}
 63
                      {todo.text} {todo.completed === true ? "(completed)" : ""}
 64
 65
                      66
 67
 68
                          className="fas fa-minus-circle"
 69
                          onClick={() => this.props.deleteTodo(todo.id)}
                          style={{
color: "white",
 70
 71
 72
                           fontSize: "20pt"
 73
                            marginRight: "20px",
 74
                          }}
 75
 76
                        <span
                          className="fas fa-check-circle"
 77
                          onClick={() => this.props.toggleTodo(todo.id)}
 78
                          style={{ color: "white", fontSize: "20pt" }}
 79
```

```
6thWeek > hunayn-app > src > containers > JS Table.js >
                             style={{ color: "white", fontSize: "20pt" }}
   79
   80
   21
                          82
                       23
                      ))}
   24
                    25
                  ):(
   86
   87
                  <div
                    style={{ marginTop: "50px" }}
   88
                    className="col-lg-10 col-md-10 col-xs-12 col-sm-12 offset-lg-1"
   89
   90
                  <div className="alert alert-danger" role="alert">
   91
   92
                    Todo List is empty or Filter results show no results
                  </div>
   95
                )}{" "}
   96
              </div>
   97
   98
   99
  100
         const getVisibleTodos = (todos, filter) => {
  101
          switch (filter) {
  102
            case SHOW ALL:
            return todos:
  103
            case SHOW COMPLETED:
  104
            return todos.filter((t) => t.completed);
  105
  6thWeek > hunayn-app > src > containers > JS Table.js >
  105
             return todos.filter((t) => t.completed);
            case SHOW_ACTIVE:
  106
  107
             return todos.filter((t) => !t.completed);
  108
            default:
  109
            throw new Error("Unknown filter: " + filter);
  110
          }
  111
  112
         const mapStateToProps = (state) => {
  113
          return {
  114
            todos: getVisibleTodos(state.todos, state.visibilityFilter),
  115
           visibilityFilter: state.visibilityFilter,
  116
          };
  117
        };
         const mapDispatchToProps = (dispatch) => {
  118
  119
          return bindActionCreators(
  120
           {
              deleteTodo,
  121
            toggleTodo,
setVisibilityFilter,
  122
  123
  124
  125
            dispatch
  126
          );
  127
  128
         export default connect(mapStateToProps, mapDispatchToProps)(Table);
  129
Edit index.js dengan source code berikut ini
  6thWeek > hunayn-app > src > Js index.js >
        import React from "react";
        import ReactDOM from "react-dom";
        import { Provider } from "react-redux";
       import { createstore, applyMiddleware, compose } from "redux";
import MainReducer from "./reducers/MainReducer";
// import App from "./App";
import Table from "./containers/Table";
        import registerServiceWorker from "./registerServiceWorker";
   8
        import CreateTodo from "./containers/CreateTodo";
   9
   10
        const store = compose(
   11
         window.devToolsExtension ? window.devToolsExtension() : (f) => f
   12
   13
        )(createStore)(MainReducer);
   15
        ReactDOM.render(
   16
         // <React.StrictMode>
   17
          // <App />
          // </React.StrictMode>,
   18
   19
          // document.getElementById("root")
   20
   21
          <Provider store={store}>
          <CreateTodo />
   22
   23
            <Table />
          </Provider>,
   24
   25
          document.getElementById("root")
   26
        registerServiceWorker();
```

Buat folder dalam src dengan nama reducers dan beri nama file FilterReducer.js dan ketikkan program dibawah ini :

```
6thWeek > hunayn-app > src > reducers > JS FilterReducer.js > ...
       import { SHOW_ALL, SET_VISIBILITY_FILTER } from "../actions/actionsTypes";
       nst visibilityFilter = (state = SHOW ALL, action) => {
  2
  3
        switch (action.type) {
          case SET VISIBILITY FILTER:
  4
  5
          return action.filter;
  6
          default:
  7
            return state;
  8
  9
       };
      export default visibilityFilter;
 10
 11
```

Masih didalam folder reducers buatlah file dengan namaTodoReducer.js

```
6thWeek > hunayn-app > src > reducers > JS TodoReducer.js > ...
      // if you want to show initial data :)
% const INITIAL_DATA = [
      // {
      // id: 0,
      // text: 'Walk the Dog',
      // },
      // {
      // id:1,
 8
      // text: 'learn Redux',
 9
 10
     // },
// ]
 11
      import { ADD_TODO, REMOVE_TODO, TOGGLE_TODO } from "../actions/actionsTypes";
 12
 13
     const INITIAL_DATA = [];
      const TodoReducer = (state = INITIAL_DATA, action) => {
        switch (action.type) {
          case ADD_TODO:
           return [
 17
            ...state,
 18
 19
 20
               id: action.id,
          }
 21
                text: action.text,
                completed: false,
 22
            },
 23
 24
          case TOGGLE TODO:
 25
           return state.map((todo) =>
 26
            todo.id === action.id ? { ...todo, completed: !todo.completed } : todo
6thWeek > hunayn-app > src > reducers > JS TodoReducer.js > ...
           return [
 18
              ...state,
            {
          ];
 19
              id: action.id,
text: action.text,
                completed: false,
 23
            },
 24
 25
         case TOGGLE_TODO:
          return state.map((todo) =>
    todo.id === action.id ?
);
 26
            todo.id === action.id ? { ...todo, completed: !todo.completed } : todo
 27
28
 29
          case REMOVE TODO:
          const numIndex = parseInt(action.id);
 30
            return state.filter((todo) => todo.id !== numIndex);
 31
 32
          default:
 33
           return state;
      export default TodoReducer;
```

Buat file dengan nama MainReducer.js dan simpan

